

SIX FLAGS NEW ENGLAND	
SUBJECT: CONFINED SPACE ENTRY	SAFETY REFERENCE MANUAL
SECTION: 7	
EFFECTIVE: January 2016	SUPERSEDES: ALL PREVIOUS
CFR #: 29 CFR 1910.146 – <i>Subpart J</i>	

7.1 PURPOSE

To establish safe practices for entering and/or working in confined spaces.

7.2 SCOPE

This procedure applies to all employees of Six Flags New England whose jobs require them to enter confined spaces.

7.3 DEFINITIONS

Confined Space - an enclosure or compartment that has limited means of exit or entry; has unfavorable natural ventilation or inadequate ventilation; could contain or has the potential for producing accumulations of toxic air contaminants, flammable, or explosive agents, and/or depletion of oxygen; and IS NOT INTENDED FOR HUMAN OCCUPANCY.

Attendant - an individual stationed outside a permit-required confined space who monitors the authorized entrants.

Authorized Entrant - an employee who is trained and is authorized to enter a confined space.

Blinding – The absolute closure to a pipe, line, or duct by the fastening of a solid plate as a visible blind that completely covers the bore and is capable of withstanding maximum pressure.

Entry - the action of a person who passes through an opening into a permit-required confined space entry includes ensuing work activities in that space and is considered to have occurred as soon as any part of the entrant's body breaks the plane of an opening into the space.

Entry Permit - the form that must be completed prior to entry which provides documentation on space condition, what is to be in the space, and who is to complete the work (Appendix A).

Entry Supervisor - the person responsible for determining if acceptable entry conditions are present at a permit space where entry is planned, for authorizing entry and overseeing entry operations, and for terminating entry as required by this program.

NOTE: An entry supervisor may also serve *as* an attendant or as an authorized entrant, providing that person is trained and equipped *as* required by this procedure for each role he/she performs.

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Hazardous Atmosphere - an atmosphere that may expose employees to the risk of death, incapacitation, impairment of ability to self escape (i.e., escape unaided from a permit space), or injury. This also includes any atmosphere that causes acute illness by flammable gas, vapor, or mist in excess of 10 percent of its lower flammable limit (LFL), airborne combustible dust at a concentration that meets or exceeds its LFL, oxygen concentrations below 19.5 percent or above 23.5 percent, atmospheric concentrations of any substance for which a dose or a permissible exposure limit has been defined, or any other atmospheric condition that is immediately dangerous to life or health.

Immediately Dangerous to Life or Health (IDLH) - any condition that poses an immediate or delayed threat to life, could cause irreversible adverse health effects, or interfere with an individual's ability to escape unaided from a permit space. -

NOTE: Some materials (e.g., hydrogen fluoride gas and cadmium vapor) may produce immediate transient effects that, even if severe, may pass without medical attention but are followed by sudden, possibly fatal collapse 12-72 hours after exposure. The victim "feels normal" after recovery from transient effects until collapse. Such materials in hazardous quantities are considered to be immediately dangerous to life or health.

Isolation – The process by which a confined space area is removed from service and is completely protected against the sudden release of material into the space by implementing methods such as: blinding, lockout/tagout, bleeding the lines, disconnecting mechanical linkages, etc.

Non-permit Confined Space - a confined space that does not contain or, with respect to atmospheric hazards, has the potential to contain any hazard capable of causing death or serious physical harm.

Permit-required Confined Space - a confined space that has one or more of the following characteristics: contains or has a potential to contain a hazardous atmosphere; contains a material that has the potential for engulfing an entrant; has an internal configuration such that an entrant could be trapped or asphyxiated by inwardly converging walls or by a floor which slopes downward and tapers to a smaller cross-section; or contains any other recognized serious safety or health hazards.

7.4 RECOGNITION, IDENTIFICATION AND SAFEGUARDING OF ALL CONFINED SPACES

It shall be the duty of the Maintenance Department to identify confined space entry areas within Six Flags New England. Once a confined space is identified, the Safety Department must be

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notified. Each space shall be tested and reviewed to determine if it is a permit required or a non-permit required confined space.

When permit required confined space work is being performed, the surrounding area shall be off limits to all those who are not directly involved in the job.

7.5 PRE-ENTRY PREPARATION

It is the responsibility of the Entry Supervisor to ensure that a pre-entry briefing is held and attended by the entry team, entry supervisor and the fire watch before each permit required confined space job is started. Some key topics to discuss in this pre-entry briefing are:

- A. The actual task or assignment to be completed.
- B. The identification and evaluation of all hazards involved.
- C. Provisions for testing, monitoring, communications, personal protective equipment (PPE) needed, possible rescue procedures and who to notify in the event of an accident.
- D. Provisions of at least one fire watch outside of the confined space area, to remain in position throughout the entire confined entry operations.
- E. Prevention of unauthorized entry into permit-required confined spaces.
- F. Tools and equipment to be used.
- G. Discuss “What If” situations.
- H. How to recognize symptoms of overexposure from the various potential hazards or risks.
- I. Electrical equipment that shall be utilized for the job is to be equipped with a ground fault circuit interrupter.
- J. Harnesses, lifelines and retrieval systems shall be readily available for use.
- K. Communication equipment for entry and emergency notification shall be supplied and in good working condition.

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7.6 TESTING THE ATMOSPHERE

Before an employee enters a permit required confined space, the internal atmosphere shall be tested. The Safety Department must also be notified before a scheduled confined space entry occurs. Gas detection measurements shall be taken for at least the minimum response time of the instrument, as specified by the manufacturer. The order in which testing shall be completed is as follows:

- A. Oxygen content
- B. Flammable gases and vapors
- C. Potential toxic air contaminants.

A hazardous atmosphere is an atmosphere that may expose employees to the risk of death, incapacitation, impairment of the ability of self-rescue, injury or serious acute illness from one of the following:

7.7 PREPARATION OF A CONFINED SPACE

All confined spaces need to be prepared prior to entering. The following areas need to be evaluated for completion.

- A. Purging and Removal of Contents

If a space has held any type of material, it may be required to purge, ventilate, pump, or flush this from the space prior to entry.

- B. Isolation

All lines that may discharge into the confined space must be physically disconnected upstream and capped or isolated.

- C. Lockout

All electrical, hydraulic, pneumatic, etc., apparatus in or associated with the space must be tagged and locked in the "OFF" position. This must be done for any entry, even though the work may not be planned for the apparatus itself. It is the responsibility of the Entry Supervisor to assure that proper lockout procedures have been performed.

- D. Security of Covers

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All manhole and other covers must be removed and the openings maintained clear of any obstructions. All access openings, hinged doors, or covers must be secured open.

E. Hotwork

Hotwork permit procedures must be followed if welding work is to be performed.

7.8 TOOLS

A. Portable Tools

All portable electrical tools and extension cords are to be grounded in good repair, and protected by a ground fault circuit interrupter (GFCI). In lieu of GFCI protection, battery or transformer equipment operated at 12 volts or less may be used.

B. Ladders

A ladder may be used as a means of entering and exiting provided it does not obstruct the opening. A ladder is required in all confined spaces deeper than five (5) feet. The ladder must be secured and not removed until all employees have exited the space.

C. Welding

All cutting and welding must be completed following proper procedures (see "Hot work" procedure). Under no circumstances may cylinders that are used for welding or cutting be taken into the confined space. Welding and cutting torches must not be taken into the space until ready to use and must be removed immediately after use.

7.9 PERSONAL PROTECTIVE EQUIPMENT

The use of the following safeguards assures that certain risks can be controlled and/or eliminated.

A. Utilization of PPE, such as SCBA and protective clothing appropriate to the potential hazards in the permit-required confined space can help to eliminate injury from hazards such as: sharp edges, chemical irritants, noise, heat, etc.

B. If available, self-contained breathing apparatus (SCBA) equipment shall be made

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readily available for rescue team members.

- C. Harnesses and lifelines shall be utilized when required and/or left in reach.
- D. Continuous ventilation of the confined space area should be considered when needed to maintain adequate oxygen levels. If this is not possible, only those personnel who have been through respirator fit-testing shall work in this environment.
- E. Periodic tests shall be performed to survey atmospheric conditions that may change during the course of the day.

7.10 ATTENDANT DUTIES

- A. Understand the present and potential hazards of the confined space.
- B. Never leave the post for any reason while personnel are inside the space. If the safety watch must leave the post, another trained attendant must replace the first watch, or the employees in the space must exit.
- C. Maintain communication and have continuous awareness of the activities of the employees in the confined space.
- D. Know the location of the nearest telephone to call for help or how to use two-way radios. The attendant must also know exact work locations.

7.11 AUTHORIZED ENTRANTS DUTIES

- A. Understand the present and potential hazards of the confined space.
- B. Properly use all equipment.
- C. Communicate with the attendant as necessary to enable the attendant to monitor the status of the entrants.
- D. Alert the attendant whenever there is a warning sign or symptom of exposure to a dangerous situation.

7.12 ENTRY SUPERVISOR DUTIES

- A. Understand the present and potential hazards of the confined space.
- B. Complete an entry permit and verify that all information has been filled out and

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tests performed.

- C. Terminate entry if problems occur.
- D. Verify that rescue services are available and able to respond.
- E. Remove unauthorized individuals who enter or attempt to enter the space.

7.13 EMERGENCY PROCEDURES

The Safety Department is responsible for coordinating confined space rescue training and/or proper use of PPE training when needed.

In the event of an emergency, the attendant is to radio for help and remain at the site until rescue members arrive. Attendants may attempt rescue **ONLY IF** a rescue action plan is in place utilizing the attendant. There must be an SCBA available, along with a life line and rescue winch. Attendants must immediately summon backup from Health Services and Safety before rescue is attempted. The following people are to be notified when a confined space emergency occurs:

- Health Services
- His/Her Supervisor
- Safety Department
- Security

Proper PPE shall be used when conducting any confined space rescue. To facilitate non-entry rescue, retrieval systems or other methods shall be used whenever an authorized entrant enters a confined space, unless the retrieval equipment would increase the overall risk of entry or would not contribute to the rescue of the entrant.

If outside rescue services are needed at an incident, responders shall be notified of all potential hazards associated inside the confined space. Material Safety Data Sheets (MSDS) shall be made available for each contaminate found inside the confined space.

7.14 WRITTEN PERMIT PROGRAM

A written permit program exists for confined space entry work. The permit shall implement means, procedures and practices necessary for safe entry into permit required confined space areas. The permit system ensures that the lead employee and the security department is aware of confined space operations being performed and also ensures that proper precautions have been administered as necessary, both during and after the confined space entry work is completed.

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The Safety Department must be notified of confined space entry and, when necessary, should be in attendance at the work site to ensure that atmospheric tests have been conducted, and must confirm that the confined space is safe for entry.

The Security Department will issue the permits after Safety approval. The permit is valid for one day only and must be turned in to the Security Dispatcher at the end of each day. If work is to be continued the following day, a new permit will be issued. When issuing the permit, the Security Department logs the confined space entry work on the Daily Radio Log and relays the information regarding the confined space entry operation to relief Security personnel. The permit will be turned in to the Safety Department and be filed for one year.

The entry supervisor will assemble materials, supplies and work crew. The entry supervisor will then request a permit from Security. The employee performing the work will fill out the permit and have it signed. The completed permit will be posted outside the area where the confined space work is being performed in a conspicuous location. After completion of the work, the entry supervisor is responsible for reporting the completed confined space entry work to Security Dispatch and Safety. The dispatcher will record the job completion time on the base radio log and will relay the information regarding the completion of the confined space work to relief personnel.

It is the responsibility of the entry supervisor to ensure all permit conditions have been complied with. The entry supervisor will also communicate with other persons in the confined space work area to assure safe knowledge of activities.

7.15 TRAINING

Initial and annual refresher training shall be provided to employees who have responsibilities dealing with any aspect of the Confined Space Entry Program. It is the responsibility of the Safety Department to coordinate any needed training. This training has been developed to provide employees with the necessary understanding, skills, and knowledge to safely perform confined space entry operations. Refresher training is conducted when an employee's duties change.

7.16 MANAGEMENT EVALUATION

This program is reviewed annually and updated as needed. All employees training is documented and kept on file for minimum of (5) years.

7.17 OUTSIDE CONTRACTORS

All outside contractors shall comply with this policy. The Six Flags New England Confined Space Entry Program supersedes any other confined space program. Effective

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measures shall be taken to prevent inadvertent entry into any permit-required confined space.

All outside contractors shall be informed that entrance into any permit required confined space requires a Six Flags New England **Confined Space Permit**. The outside contractor shall be notified of all potential hazards associated with the confined space work site. The Maintenance/Safety Department will assist the outside contractor with atmospheric testing requirements. When needed, the Safety Department will respond and verify safe entry.

7.18 SEWER ENTRY

- A. Sewer entry differs from other confined space entries.
- B. There rarely exists any way to completely isolate the space to be entered due to the many tunnels.
- C. Because isolation is not complete, the atmosphere may suddenly and unpredictably become lethally hazardous (explosive, toxic, etc.) from causes beyond the control of management and the entrants.
- D. A **Confined Space Entry Permit** is **ALWAYS** required for any type of sewer work.
- E. Continuous atmospheric monitoring is preferred. However, atmospheric tests shall be conducted by lowering the gas detector into the sewer system before entry and every thirty minutes thereafter until the work is complete.
- F. An attendant shall be stationed above ground and will perform his or her duties as stated in section (5.9). A fire extinguisher shall be kept within reach of the attendant.
- G. Due to danger of being engulfed in a flood, sewer entry teams shall also be kept aware of possible severe weather conditions. Any sign of severe weather, especially flash flood warnings, automatically cancels any underground confined space work.

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APPENDIX A

CONFINED SPACE ENTRY PERMIT

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Confined Space Location: _____

Purpose of Entry: _____

Date Permit Issued: _____ Date Permit Expires: _____

Authorized Entrants: _____

Entry Supervisor: _____

Entry Attendant: _____

Known Hazards: _____

Steps Taken to Eliminate or Control Hazards: _____

How is Confined Space Isolated: _____

Testing & Monitoring of Confined Space in this sequence:

_____ Oxygen

_____ Combustible Gases & Vapors

_____ Toxic Gases & Vapors

To Summon Rescue & Emergency Services, Call: _____

Communication for Attendants/Entrants: _____

Required Equipment: _____ PPE _____ Communications
 _____ Lighting _____ Testing & Monitoring Equipment
 _____ Ladders _____ Rescue & Emergency Equipment

Permit Issued By: _____ Date: _____

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CONFINED SPACE ENTRY PERMIT
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This confined space entry permit, when properly authorized, allows the person(s) to whom it is issued to enter the area specified. The work SHALL NOT be started until the indicated signatures have been obtained, all requirements met, and any discrepancies corrected. The permit shall be retained in the job file for at least one year.

YES	NO	N/A	ENTRY CHECKLIST
			(All applicable items shall be "YES" for the permit to be valid.)
			1. Procedure provided, reviewed, and enforced?
			a. All procedures reviewed and understood?
			b. Person on site at all times to enforce all procedures?
			c. Material Safety Data Sheet reviewed?
			2. Welding permit approved and posted?
			3. Confined Space isolated?
			a. Lock & Tag procedure followed?
			b. Power sources "OFF"? Locked out?
			c. Electrical hazards isolated, tagged?
			d. Rotating equipment locked out or equivalent?
			e. Lines carrying materials to and from the space blanked off, section removed or locked by two valves and drained?
			f. Drain valve locked open and tagged?
			g. Contents removed and Space flushed?
			4. Atmosphere of Confined Space prepared and monitored?
			a. Confined Space purged?
			b. Flanges/access doors removed? Manholes open?
			c. Continuous ventilation provided?
			d. Oxygen level maintained over 19.5% but less than 23%?
			e. Continuous air monitoring equipment provided?
			5. Proper PPE and safe work area provided?
			a. Specific instructions given for its use?
			b. Air lines, SCBA, or other approved respirators provided?
			c. Safety harness w/"D" ring and lifeline with double action snap hooks provided?
			d. Head, hearing, hand, foot & body protection provided?
			e. Fire extinguishers readily available?
			f. Walking/working surface protected from slippage?
			6. Safety/Rescue attendants?
			a. Safety watch trained and prepared to respond?
			b. Rescue equipment provided at space entry point?
			c. Alarms or communications devices available?

NOTE: This list of items is not intended to be all inclusive. Certain jobs may require additional specifications.

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APPENDIX B

PERMIT REQUIRED CONFINED SPACES

Sewer Ejector Pit - Picnic Grove
Tea Cups –South Area of Park
Adult Swings – South Area of Park
Waste Pit - behind Johnny Rockets DC
All Filter Pits